

ABSTRACT

An imaging and display apparatus for passive displays evaluates the illumination of an input scene and incorporates data representative of such input scene within a transfer media. The transfer media may be a broadcast or transmission of image data, illumination data and gamma information that can be received by a display system, which includes a passive display illuminated by incident light, to display images while adjusting the incident light and/or gamma based on the received data. The transfer media may be a storage medium storing image data, illumination data and gamma information for delivery to a passive display system. The data controls the optical characteristics of the illumination source for the passive display and the gamma and tends to minimize energy requirements, to maximize contrast or shades of gray in the displayed image, and to optimize light source operation for color fidelity. The data provided the media and/or display as a video signal, modulated video signal, s-video signal, digital signal, or other signal that can be used by a passive display system to display images.

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